a $\quad$ ACP: Metacognition Mefacognition: The abilifiy fo use a widde range
of ifhinking approaches in differenf sifuafions


| 1 | 2 | 3 | 4 | 5 |
| :--- | :--- | :--- | :--- | :--- |
| I know <br> different <br> ways to <br> solve a <br> problem | I can <br> describe <br> the ways <br> to solve <br> a <br> problem | I can <br> choose <br> the best <br> way to <br> solve a <br> problem | I can <br> evaluate <br> ways of <br> solving a <br> problem | I can use <br> and <br> evaluate <br> many <br> ways to <br> solve a <br> problem, <br> including <br> making <br> my own |

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## -Plan-think about the task

 before you start,Do it and think about how you are doing,
QReview, think about how you are doing,
QReview, think about how you could do better next time


Am I on the right track?

Benefit: being able to approach long or difficult

## Gilds Mefacognifion: Plan $\rightarrow \mathrm{Do}_{0} \rightarrow$ Review

After

- What worked well?

What could I have done better?
Can I apply this to other situations?

## - What can I do differently? <br> Who can I ask for help?

USE Mellacognifion: Plan $\rightarrow \mathrm{Do} \rightarrow$ Review When you revise, ift's built info our cycle

## Revision Cycle

1. SUMMARISE: shorten information
2. RETRIEVE: find out what you know
3. FILL THE GAPS: look at
what you don't remember
4. FILL THE GAPS: look at
what you don't remember
5. APPLY: practice using the information
6. REVIEW: reflect on how you have done and repeat

## SUMMARISE

號 <br> <br>  <br> <br>  <br> <br>  <br> <br>  <br> <br>  <br> <br>  <br> <br>  <br> <br> Ny，
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civ <br> <br> 둘} <br> \section*{ACG：Intellectual confidence
You need to be infenleafually confiolenf to
give sensible answers and try．
Intellectual confidence is the ability to express
your view based on knowledge

| 1 | 2 | 3 | 4 | 5 |
| :--- | :--- | :--- | :--- | :--- |
| $\begin{array}{l}\text { I can } \\ \text { start to } \\ \text { give my }\end{array}$ | $\begin{array}{l}\text { I can } \\ \text { give my } \\ \text { view }\end{array}$ | $\begin{array}{l}\text { I can } \\ \text { justify } \\ \text { my view }\end{array}$ | $\begin{array}{l}\text { I can } \\ \text { evaluate } \\ \text { other }\end{array}$ | $\begin{array}{l}\text { and can use } \\ \text { and evade }\end{array}$ | <br> \section*{ACG：Intellectual confidence

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| :--- | :--- | :--- | :--- | :--- |
| I can <br> start to <br> give my <br> view | I can <br> give my <br> view <br> with a <br> reason | I can <br> justify <br> my view <br> with <br> evidence | I can <br> evaluate <br> other <br> views | I can use <br> and <br> evaluate <br> views to <br> make an <br> effective <br> argument | <br>  <br> <br>  <br> <br>  <br> <br>  <br> <br>  <br> <br>  <br> <br>  <br>  <br> give sensible answers and try

Intellectual confidence is the
your view based on knowledge

| 1 | 2 | 3 |
| :--- | :--- | :--- |
| $\begin{array}{l}\text { I can } \\ \text { start to } \\ \text { give my } \\ \text { view }\end{array}$ | $\begin{array}{l}\text { I can } \\ \text { give my } \\ \text { view } \\ \text { with a } \\ \text { reason }\end{array}$ | $\begin{array}{l}\text { I can } \\ \text { justify } \\ \text { my view } \\ \text { with } \\ \text { evidence }\end{array}$ | <br>  <br>  <br>  <br> <br>  <br> <br>  <br> <br>  <br> <br>  <br>  <br>  <br>  <br>  <br> }

- See and make connections between facts - Explain connections
- Use connections to explain a wider idea




 idea






## - Solve complex and multi step problems

| 1 | 2 | 3 | 4 | 5 |
| :--- | :--- | :--- | :--- | :--- |
| I can use an <br> approach to <br> solve a <br> simple | I can <br> break <br> tasks into <br> problem | I can <br> choose <br> stater <br> steps | I can <br> evaluate <br> to solve a <br> more <br> complex <br> strategies | I can select <br> the most <br> effective <br> strategies |
| and use |  |  |  |  |

## ACP: Complex and multi-step

 $:$

## problem solving

 9$a^{-2}$ n+ $\times$

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solve a




## ACP: Automaticity

## Automaticity abinility to do things

 without occupying the mind with details. Doing something without thinking| 1 | 2 | 3 | 4 | 5 |
| :---: | :---: | :---: | :---: | :---: |
| I can recall simple facts | I can recall complex facts and ideas. I can use some equipment, skills and techniques | I can recall complex facts on my own. I can conduct practicals and work scientifically with minimal support | I can easily recall complex facts, work scientifically without support and use rules fluently | I can use key ideas without effort and a range of skills without thinking |

## Automaticity

This doesnit happen straight away.吃 takes time ennd lots of practice.论 is what we aim for so we can do our absolute best

## Fitts and Posner's Model of Motor Learning



Cognitive Stage
Learners expend cognitive energy to understand how they are supposed to move


## Associative Stage

Learners have mastered the basic forms of movement and begin to refine their skills with practice


Autonomous Stage
Learners perform movements automatically
without significant cognitive energy, and can
focus on strategy

## VAA: Concerned for society

 Understanding right from wrong and trying to help firom class to planet| 1 | 2 | 3 | 5 |  |
| :--- | :--- | :--- | :--- | :--- |
| I know the | l can | I can work | I can | I analyse |
| difference | suggest |  |  |  |
| between | with others, | develop | how beliefs |  |
| right and | understand <br> make our <br> critical <br> world <br> wrong <br> better and <br> how we <br> might do it | and <br> rights and <br> how they <br> rely on the <br> planet | apinions, <br> different <br> priorities <br> and <br> celebrate <br> affect | opinions, <br> actively <br> challenge <br> injustice and |The desire to learn, Ask questions, make links and use them to problem solve.

I can ask questions
$\square$

| 1 |
| :--- |
| I can ask |
| questions |


|  | 2 | 3 |
| :--- | :--- | :--- |


| I can | I can explain |
| :--- | :--- |
| research | research |
| ideas in | techniques, |
| steps, use | teach others |


| I can | I can explain |
| :--- | :--- |
| research | research |
| ideas in | techniques, |
| steps, use | teach others |


| I can | I can explain |
| :--- | :--- |
| research | research |
| ideas in | techniques, |
| steps, use | teach others |

4
I can explain
research
techniques,
teach others
evidence based decisions 4
based
decisions
sensible questions, research and make crosscurricular
I can critically identify路
relevant enquiry, information, make
I can use
evidence and link viewpoints
interested in learning new things and seeing different viewpoints

ENQUIRING

| I am | I can |
| :--- | :--- |
| interested |  |
| in learning | research |
| ideas in |  |
| new things | steps, use |
| and seeing | relevant |
| different | information, |

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#### Abstract

concision





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## （ad⿵人一口⿻上丨）High performance learning

Precision is the abilility fo complete worlk using the rules of the fasko Are you sure everything is correct？


1. Know there are different ways to solve a problem
2. Know the main ways that you could use
3. Use the most appropriate strategy for a problem
4. Do this independently


## Ahas－ACP：Self－regulation

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## ch







## How can I self-regulate?

## 1. Read carefully

What do you need to do?
4. Reflect

Is there anything I don't quite understand?

## 2. Think

How am I going to tackle this?


## 5. Think back

What do I often get wrong? How can I avoid this?
8. Persist

If you get stuck don't panic. Think hard and try to crack it before seeking help.

9. Check

When finished check it for mistakes.

## 10. Reflect

What did I do well. What might I do better next time?

